



# APALACHICOLA RIVER BASIN

2002 Water Year

02335000

CHATTAHOOCHEE RIVER NEAR NORCROSS, GA

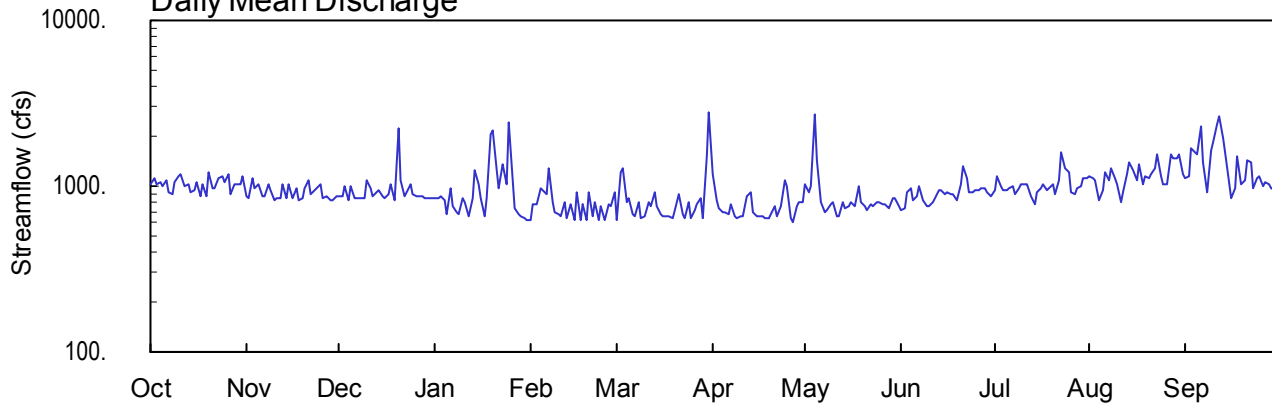
Latitude: 33° 59' 50" Longitude: 84° 12' 07" Hydrologic Unit Code: 03130001

Gwinnett County

Drainage Area: 1,170. mi<sup>2</sup>

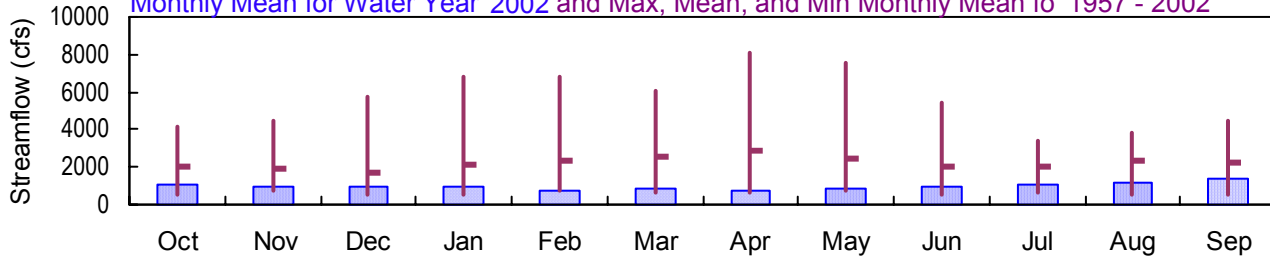
Datum: 878.14 feet

## Daily Mean Discharge

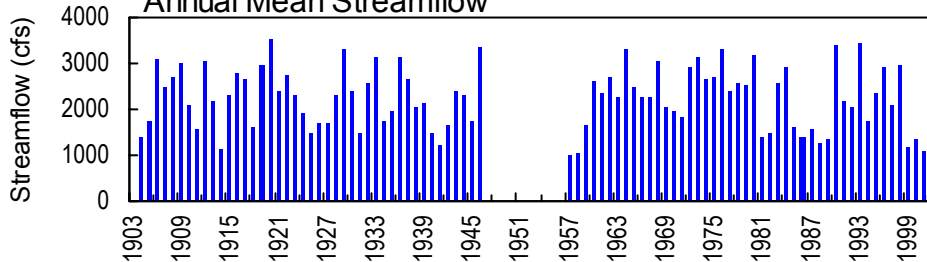


## Monthly Statistics

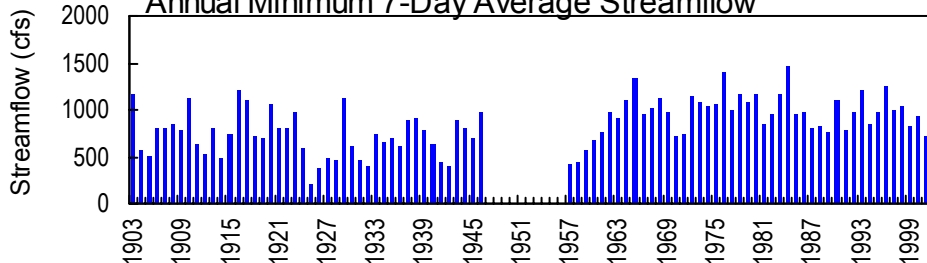
Monthly Mean for Water Year 2002 and Max, Mean, and Min Monthly Mean for 1957 - 2002



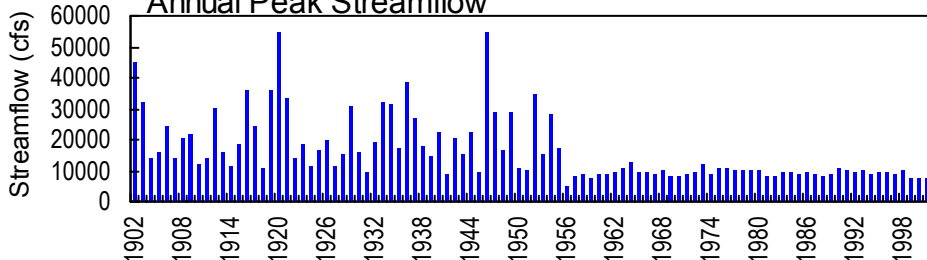
## Annual Mean Streamflow



## Annual Minimum 7-Day Average Streamflow



## Annual Peak Streamflow



02335000 - Chattahoochee River near Norcross, GA

## APALACHICOLA RIVER BASIN

2002 Water Year

### 02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA

**LOCATION.**—Lat 33°59'50", long 84°12'07" referenced to North American Datum (NAD) of 1983, Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on GA 141, 1.5 miles upstream from John Creek, 4.5 miles north of Norcross, 6.5 miles downstream from Suwanee Creek, 18.0 miles downstream from Buford Dam, and at mile 330.8.

**DRAINAGE AREA.**—1,170 mi<sup>2</sup>, approximately.

**COOPERATION.**—U.S. Army Corps of Engineers, Mobile District; Georgia Environmental Protection Division, Georgia Power Corporation.

### WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**—October 1902 to September 1946, October 1956 to current year. Monthly discharge only for October to December 1902, published in WSP 1304. Gage-height records collected at same site 1910-33, and since 1945 are contained in reports of National Weather Service.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 878.14 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, a non-recording gage was located at a site 500 feet downstream at same datum. From July 14, 1955 to March 11, 1957, a non-recording gage was located at present site and datum.

**REMARKS.**—Records good, except for period of estimated discharge, which is fair. Flow regulated by Lake Sidney Lanier since January 1956. Diversion and return flow above station regulated by Gwinnett County. Statistics prior to regulation are available upon request.

**EXTREMES OUTSIDE PERIOD OF RECORD.**—Maximum stage known since at least 1896, is 27.70 feet, January 8, 1946, discharge, 55,000 ft<sup>3</sup>/s, from rating extended above 36,000 ft<sup>3</sup>/s on the basis of computation of peak flow over Morgan Falls Dam.

### WATER-STAGE RECORDS

**PERIOD OF RECORD.**—October 1902 to September 1946, October 1956 to current year.

**GAGE.**—Satellite telemetry with a water-stage recorder and a continuous water-quality monitor. Datum of gage is 878.14 feet above National Geodetic Vertical Datum (NGVD) of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, a non-recording gage was located at a site 500 feet downstream at same datum. From July 14, 1955 to March 11, 1957, a non-recording gage was located at present site and datum.

**REMARKS.**—Records good.

**EXTREMES FOR CURRENT YEAR.**—Maximum gage-height recorded, 7.79 feet, September 12; minimum gage-height recorded, 1.60 feet, January 16, March 1.

**APALACHICOLA RIVER BASIN**  
**2002 Water Year**

**02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA—continued.**

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**—June 29, 2002 to September 30, 2002.

**GAGE.**—Tipping-bucket raingage.

**REMARKS.**—Records good.

STATION NUMBER 02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 335950 LONGITUDE 0841207 NAD83 DRAINAGE AREA 1170.00\* CONTRIBUTING DRAINAGE AREA DATUM 878.14 NGVD29  
 Date Processed: 2003-03-11 10:13 By acday

APPROVED

DD #2, DCP

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	862	868	843	621	616	1180	1020	716	944	1140	1130
2	1110	852	877	839	781	1220	814	913	740	1150	1110	1140
3	1020	1120	993	861	776	1280	735	992	919	1010	1080	1710
4	1050	966	832	825	966	791	705	2700	970	943	818	1620
5	997	1040	1010	673	956	839	688	1450	826	953	938	1560
6	1090	859	840	979	898	673	674	811	881	976	1220	2310
7	919	866	848	758	1300	660	788	699	1010	999	1080	1390
8	890	1030	841	688	808	808	666	711	815	891	1270	929
9	1050	945	839	674	698	646	649	784	763	960	1110	1640
10	1140	826	1080	844	682	662	655	795	756	1020	1020	1820
11	1190	848	976	791	665	800	651	657	802	1020	793	2360
12	1000	848	871	664	812	758	871	665	856	1030	908	2640
13	1040	1030	915	843	646	925	922	798	947	875	1180	1930
14	929	848	951	1250	788	761	700	727	948	778	1380	1600
15	942	1030	875	1020	630	676	661	757	901	908	1240	1060
16	1050	840	848	845	908	668	658	802	914	974	1090	847
17	878	964	907	658	628	665	655	749	897	1020	1360	961
18	1040	830	1020	852	783	658	644	1000	883	946	1020	1530
19	878	852	820	2030	624	649	638	808	829	975	1160	1020
20	1200	981	2220	2190	920	715	677	756	1040	1020	1130	1090
21	986	1080	1100	1250	659	884	758	709	1330	891	1190	1440
22	975	906	863	960	791	682	665	785	1110	1080	1300	1400
23	1130	946	928	1360	617	645	761	764	930	1600	1540	984
24	1140	965	1030	1040	767	810	1100	812	932	1290	1150	1110
25	1060	1020	896	2400	617	639	988	812	937	1200	1030	e1140
26	1190	857	879	1090	777	707	634	784	957	928	1030	e1010
27	903	863	875	733	748	784	606	788	980	889	1580	1060
28	1020	835	874	680	921	836	764	746	977	981	1460	1030
29	1040	827	845	656	---	644	792	855	921	1000	1470	967
30	1030	879	838	639	---	1500	802	858	874	1120	1540	942
31	1140	---	844	627	---	2810	---	760	---	1110	1190	---
TOTAL	32057	27615	29403	30562	21787	26411	22501	27267	27361	31481	36527	41370
MEAN	1034	920	948	986	778	852	750	880	912	1016	1178	1379
MAX	1200	1120	2220	2400	1300	2810	1180	2700	1330	1600	1580	2640
MIN	878	826	820	627	617	616	606	657	716	778	793	847
CFSM	0.88	0.79	0.81	0.84	0.67	0.73	0.64	0.75	0.78	0.87	1.01	1.18
IN.	1.02	0.88	0.93	0.97	0.69	0.84	0.72	0.87	0.87	1.00	1.16	1.32

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2002, BY WATER YEAR (WY)

	1992	1897	1707	2097	2292	2519	2865	2413	2060	2054	2375	2201
MEAN	1992	1897	1707	2097	2292	2519	2865	2413	2060	2054	2375	2201
MAX	4196	4433	5778	6802	6797	6053	8042	7509	5476	3427	3875	4423
(WY)	1992	1975	1993	1993	1996	1990	1964	1964	1973	1963	1994	1967
MIN	502	698	558	529	709	647	608	696	569	598	501	523
(WY)	1958	1957	1958	1958	1957	1959	1959	1958	1957	1957	1957	1957

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1957 - 2002

ANNUAL TOTAL	386514	354342	
ANNUAL MEAN	1059	971	2205
HIGHEST ANNUAL MEAN			3431
LOWEST ANNUAL MEAN			971
HIGHEST DAILY MEAN	4460	Jul 31	11200
LOWEST DAILY MEAN	629	May 21	351
ANNUAL SEVEN-DAY MINIMUM	718	Apr 6	416
MAXIMUM PEAK FLOW			13200
MAXIMUM PEAK STAGE			13.10
ANNUAL RUNOFF (CFSM)	0.91		1.88
ANNUAL RUNOFF (INCHES)	12.29		25.60
10 PERCENT EXCEEDS	1430		4420
50 PERCENT EXCEEDS	997		1600
90 PERCENT EXCEEDS	740		758

e Estimated

STATION NUMBER 02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA SOURCE AGENCY USGS STATE 13 COUNTY 135  
 LATITUDE 335950 LONGITUDE 0841207 NAD83 DRAINAGE AREA 1170.00\* CONTRIBUTING DRAINAGE AREA DATUM 878.14 NGVD29  
 Date Processed: 2003-03-11 10:13 By acday

APPROVED

DD #3, DCP

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.25	2.01	2.08	2.06	1.74	1.72	2.75	2.48	1.91	2.29	2.61	2.59
2	2.38	1.99	2.10	2.05	2.04	2.76	2.12	2.28	1.96	2.67	2.55	2.61
3	2.23	2.45	2.30	2.09	2.03	2.91	1.97	2.41	2.25	2.46	2.50	3.36
4	2.28	2.19	2.03	2.02	2.35	2.08	1.91	4.58	2.34	2.33	2.04	3.21
5	2.19	2.31	2.34	1.72	2.34	2.15	1.87	3.15	2.13	2.32	2.24	3.15
6	2.35	2.02	2.04	2.29	2.24	1.84	1.85	2.12	2.22	2.37	2.73	4.06
7	2.07	2.03	2.06	1.89	2.94	1.82	2.05	1.90	2.44	2.40	2.51	2.91
8	2.01	2.31	2.05	1.75	2.11	2.09	1.83	1.91	2.10	2.23	2.82	2.31
9	2.28	2.16	2.05	1.73	1.89	1.79	1.80	2.05	2.00	2.32	2.55	3.27
10	2.43	1.97	2.46	2.04	1.86	1.82	1.81	2.08	1.99	2.43	2.41	3.48
11	2.50	2.01	2.29	1.95	1.83	2.08	1.80	1.81	2.08	2.44	1.99	4.11
12	2.21	2.01	2.11	1.71	2.10	2.01	2.21	1.82	2.17	2.45	2.19	4.39
13	2.27	2.31	2.19	2.03	1.79	2.32	2.30	2.08	2.32	2.20	2.66	3.61
14	2.09	2.01	2.25	2.73	2.05	2.02	1.90	1.95	2.33	2.04	2.96	3.32
15	2.12	2.33	2.12	2.32	1.76	1.85	1.82	2.00	2.25	2.26	2.75	2.59
16	2.30	2.00	2.07	2.04	2.26	1.83	1.81	2.08	2.27	2.36	2.52	2.22
17	2.01	2.21	2.17	1.69	1.75	1.83	1.81	1.98	2.24	2.44	2.93	2.41
18	2.28	1.99	2.35	2.05	2.04	1.81	1.79	2.45	2.21	2.32	2.41	3.34
19	2.01	2.03	2.00	3.72	1.75	1.80	1.77	2.09	2.12	2.33	2.61	2.52
20	2.56	2.26	3.91	4.04	2.27	1.92	1.85	1.99	2.45	2.43	2.52	2.61
21	2.19	2.43	2.50	2.78	1.81	2.25	1.99	1.91	2.84	2.23	2.69	3.22
22	2.18	2.13	2.10	2.31	2.06	1.86	1.82	2.05	2.55	2.48	2.84	3.17
23	2.44	2.20	2.21	3.00	1.73	1.79	2.00	2.01	2.31	3.26	3.18	2.48
24	2.45	2.24	2.39	2.48	2.01	2.10	2.56	2.10	2.31	2.87	2.61	2.67
25	2.34	2.33	2.16	4.35	1.72	1.77	2.41	2.10	2.31	2.70	2.42	---
26	2.55	2.05	2.12	2.58	2.04	1.91	1.77	2.05	2.34	2.23	2.43	---
27	2.07	2.06	2.12	1.97	1.98	2.06	1.70	2.05	2.37	2.18	3.28	2.66
28	2.28	2.02	2.11	1.86	2.27	2.15	2.01	1.97	2.38	2.34	3.07	2.62
29	2.31	2.01	2.06	1.81	---	1.79	2.05	2.16	2.28	2.38	3.08	2.51
30	2.28	2.10	2.05	1.78	---	3.07	2.08	2.16	2.20	2.59	3.19	2.47
31	2.46	---	2.06	1.75	---	4.77	---	2.00	---	2.55	2.64	---
MEAN	2.27	2.14	2.22	2.28	2.03	2.13	1.98	2.19	2.26	2.42	2.64	---
MAX	2.56	2.45	3.91	4.35	2.94	4.77	2.75	4.58	2.84	3.26	3.28	---
MIN	2.01	1.97	2.00	1.69	1.72	1.72	1.70	1.81	1.91	2.04	1.99	---

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APPROVED

DD #7, DCP

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
2	---	---	---	---	---	---	---	---	---	0.00	0.01	0.00
3	---	---	---	---	---	---	---	---	---	1.21	0.00	0.00
4	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
5	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
6	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
7	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
8	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
9	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
10	---	---	---	---	---	---	---	---	---	0.02	0.00	0.00
11	---	---	---	---	---	---	---	---	---	0.00	0.00	0.00
12	---	---	---	---	---	---	---	---	---	0.02	0.00	0.00
13	---	---	---	---	---	---	---	---	---	0.05	0.00	0.00
14	---	---	---	---	---	---	---	---	---	0.01	0.00	0.00
15	---	---	---	---	---	---	---	---	---	0.00	0.06	0.00
16	---	---	---	---	---	---	---	---	---	0.00	0.42	0.00
17	---	---	---	---	---	---	---	---	---	0.00	0.27	0.00
18	---	---	---	---	---	---	---	---	---	0.00	0.27	0.06
19	---	---	---	---	---	---	---	---	---	0.00	0.28	0.00
20	---	---	---	---	---	---	---	---	---	0.00	0.00	0.12
21	---	---	---	---	---	---	---	---	---	0.02	0.00	0.61
22	---	---	---	---	---	---	---	---	---	0.00	0.00	0.07
23	---	---	---	---	---	---	---	---	---	0.84	0.00	0.00
24	---	---	---	---	---	---	---	---	---	0.48	0.00	0.01
25	---	---	---	---	---	---	---	---	---	0.01	0.07	---
26	---	---	---	---	---	---	---	---	---	0.68	0.33	---
27	---	---	---	---	---	---	---	---	---	0.00	0.00	---
28	---	---	---	---	---	---	---	---	---	0.00	0.00	---
29	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
30	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
31	---	---	---	---	---	---	---	---	---	0.48	0.00	---
TOTAL	---	---	---	---	---	---	---	---	---	3.82	1.71	---